

199114

4

of 4

**SEARCH REQUEST FORM Scientific and Technical Information Center - EIC2800**

Rev. 1/26/2006 This is an experimental format -- Please give suggestions or comments to Jeff Harrison, JEF-4B68, 22511.

Date 8/19/06 Serial # 101664955 Priority Application Date 1/11/02  
Your Name M. Lewis Examiner # \_\_\_\_\_  
AU 2572 Phone 209-7538 Room 5A30

PAPER

DISK

EMAIL

In what format would you like your results? Paper is the default.  
If submitting more than one search request form, please prioritize the searches in order of need.

Where have you searched so far on this case?

Circle: USPTO  DWPI  EPO Abs  JPO Abs  IBM TDB  
Other: \_\_\_\_\_

*Week before  
8/25*

What relevant art have you found so far? Please attach citations or Information Disclosure Statements.

What types of references would you like? Please checkmark:

Primary Refs  Nonpatent Literature  Teaching Refs   
Secondary Refs  Foreign Patents  Other

AUG 21 2006

Is this a "Fast & Focused Search" request? (Circle One)  YES  NO

A "Fast & Focused Search" is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2800 and on the STIC NPL Web Page at <http://uspto-a-pattr-2/siraapps/stic/npl/nplsearch.htm>

What is the topic, such as the novelty, motivation, utility, or other specific facets defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, registry numbers, definitions, structures, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract and pertinent claims.

*Claims 2-6*

*MEM*

*Problem: See pages 1-3  
Solution: 11 11 34*

*Reduce the size of the MEM*

*US 6,975,326*

Staff Use Only

Searcher: Michael Green

Searcher Phone: 571-272-2663

Searcher Location: STIC-EIC2800, JEF-4B68

Date Searcher Picked Up: 8/29/2006

Date Completed: 8/29/2006

Searcher Prep/Rev Time: 71

Online Time: 114

Type of Search

Structure (#) \_\_\_\_\_

Bibliographic

Litigation \_\_\_\_\_

Fulltext \_\_\_\_\_

Patent Family

Other \_\_\_\_\_

Vendors

STN

Dialog

Questel/Orbit \_\_\_\_\_

Lexis-Nexis \_\_\_\_\_

WWW/Internet \_\_\_\_\_

Other \_\_\_\_\_

8/28/06

10/664250

(FILE 'HOME' ENTERED AT 16:24:07 ON 28 AUG 2006)

FILE 'CAPLUS' ENTERED AT 16:24:29 ON 28 AUG 2006

L1 706819 SEA ABB=ON PLU=ON SEMICONDUCTOR OR SEMI CONDUCTOR OR CHIP OR MICROCHIP OR IC OR INTEGRATED CIRCUIT#####

L2 1910603 SEA ABB=ON PLU=ON SUBSTRATE OR WAFER##### OR SUPPORT#####

L3 22685 SEA ABB=ON PLU=ON MEMS OR MICROMECHANICAL OR MICRO ELECTROMECHANICAL OR (MICROMECHANIC##### OR MICRO) (3A) (DEVICE OR MEANS OR APPARATUS OR APPT) OR MEM

L4 3603104 SEA ABB=ON PLU=ON UNIT OR MODUL##### OR COMPONENT OR ITEM OR ELEMENT OR ASSEMBL#####

L5 646 SEA ABB=ON PLU=ON L1 AND L2 AND L3 AND L4

L6 47 SEA ABB=ON PLU=ON L5 AND (MOVING OR MOVABLE OR MOTILE OR NON STATIC OR DYNAMIC#####)

L7 53 SEA ABB=ON PLU=ON SL6 AND PY<=2002

L8 22 SEA ABB=ON PLU=ON L6 AND PY<=2002

L9 1 SEA ABB=ON PLU=ON L8 AND MIRROR#####

L10 1 SEA ABB=ON PLU=ON L8 AND MEMOR#####

L11 7 SEA ABB=ON PLU=ON L8 AND (SENS##### OR DETECT#####)

L12 6 SEA ABB=ON PLU=ON L8 AND (ELECTROD##### OR CATHOD##### OR ANOD##### OR CONDUCT#####)

L13 6 DUP REM L12 (0 DUPLICATES REMOVED)

L14 72 SEA ABB=ON PLU=ON (REDU##### OR DECREAS##### OR SHRINK##### OR MINIM#####) (3A) MEMS

L15 24 SEA ABB=ON PLU=ON L14 AND PY<=2002

L16 24 DUP REM L15 (0 DUPLICATES REMOVED)

L17 0 SEA ABB=ON PLU=ON L15 AND L6

L18 2 SEA ABB=ON PLU=ON L15 AND MIRROR#####

L19 24 SEA L16

L20 4 SEA ABB=ON PLU=ON L19 AND (SENS##### OR DETECT#####)

L\*\*\* DEL 18 S L14 AND L1

L21 24 SEA L16

L22 4 SEA ABB=ON PLU=ON L21 AND L1

L23 24 SEA L16

L24 9 SEA ABB=ON PLU=ON L23 AND L4  
D L9 IBIB ABS

L25 1 SEA ABB=ON PLU=ON L10 NOT L9  
D L25 IBIB ABS

L26 6 SEA ABB=ON PLU=ON L11 NOT (L9 OR L10)  
D L26 IBIB ABS 1-6

L27 6 SEA L13

L28 3 SEA ABB=ON PLU=ON L27 NOT (L9 OR L10 OR L11)  
D L28 IBIB ABS 1-3

L29 6 SEA L13

L30 2 SEA ABB=ON PLU=ON L18 NOT (L9 OR L10 OR L11 OR L29)  
D L30 IBIB ABS 1-2

L31 6 SEA L13

L32 4 SEA ABB=ON PLU=ON L20 NOT (L9 OR L10 OR L11 OR L31 OR L18)  
D L32 IBIB ABS 1-4

L33 6 SEA L13

L34 3 SEA ABB=ON PLU=ON L22 NOT (L9 OR L10 OR L11 OR L33 OR L18 OR L20)  
D L34 IBIB ABS 1-3

L35 6 SEA L13

L36 5 SEA ABB=ON PLU=ON L24 NOT (L9 OR L10 OR L11 OR L35 OR L18 OR L20 OR L22)  
D L36 IBIB ABS 1-5

FILE 'STNGUIDE' ENTERED AT 16:48:18 ON 28 AUG 2006

8/29/2006 1:01:29 PM  
8/29/2006 1:43:37 PM

10/664258

[File 344] Chinese Patents Abs Jan 1985-2006/Jan  
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)  
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607  
[File 371] French Patents 1961-2002/BOPI 200209

**Set      Items      Description**

**S1**    2776814    S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT????()CIRCUIT()BOARD? ? OR CIRCUIT???)BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON???)DEVICE? ? OR PRINT???)CIRCUIT???)OR IC? ? OR INTEGRAT????()CIRCUIT???)OR CHIP? ? OR WAFER???)OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX?????(3N)CIRCUIT OR FLEX?????)OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC?????)OR INTEGRAT?????)OR FLEX?????)

**S2**    57011    S MEMS OR OPTICAL????(2N)SWITCH???)OR MICROMACHIN????? OR MICRO()MACHIN????? OR MICROELECTROMECHANICA????? OR MICRO()ELECTROMECHANICAL????? OR MICRO()ELECTRO()MECHANICAL????? OR MICROMECHANIC????? OR MICRO()MECHANIC????? OR MICRO(3N)MECHANICAL OR MICRO(2N)ELECTROMECHANICAL????? OR (MICRO OR MICROMECHANIC?????)(3N)(DEVICE? ? OR MEANS OR APPARATUS OR APPT OR CHIP OR CIRCUIT?????)

**S3**    3882318    S SUBSTRATE? ? OR WAFER????? OR SUPPORT????? OR CHIP OR MICROCHIP OR MICRO()CHIP

**S4**    11919304    S UNIT? ? OR ASSEMBL???? OR ENTIT???? OR GROUP? ? OR MODULE? ? OR PIECE? ? OR COMPONENT? ? OR ELEMENT? ? OR ITEM? ? OR PART? ?

**S5**    3786428    S MOVING OR MOVABLE OR SHIFT???? OR ADVANC???? OR MOBIL???? OR MOTIVE OR MOTIL???? OR MOTION???? OR ACTIV???? OR AGITATE?????

**S6**    2301630    S (CONTROL???? OR MASTER??? OR GUID???? OR OPERAT???? OR GOVERN???) (3N) (ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?) OR ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?

**S7**    7929119    S SENS???? OR DETECT???? OR MONITOR???? OR MEASUR???? OR TEST???? OR GAUG???? OR PROB???? OR ACTUAT???? OR CONTROL????(2N) (MEANS OR DEVICE OR APPT OR APPARATUS)

**S8**    5068531    S (RECORD??? OR NONVOLATILE OR NON()VOLATILE? ?) (3N) (ELEMENT??? OR DEVICE? ? OR APPARATUS? OR METHOD? ?) OR DISK????? OR DISC????? OR RECORD????? OR SCRIB??? OR READ????? OR RIT????? OR MEMOR????? OR CACH????? OR BUFFER????? OR CD()ROM OR CD OR COMPACT() (DISC??? OR ISK???) OR RAM? ? OR DRAM? ? OR NVRAM? ? OR SRAM? ? OR SDRAM? ? OR ROM? ? OR PROM? ? OR EPROM? ? OR EEPROM? ? OR STOR????(3N) (DEVICE? ? OR MEANS OR APPARATUS?) OR (READ????? OR DATA? ? OR RIT????? OR RECORD????? OR INFORMATION? ? OR INFO? ? OR COMPUT?????????????) (3N) (STOR????? OR EMOR????? OR MEDIA OR MEDIUM)

**S9**    330    S (SHRINK????? OR DOWNSIZ????? OR DOWN()SIZING OR DECREAS????? OR MINIM????? OR DIMINISH????? OR REDUC????? OR ECONOM?????) (3N) (MEM OR MEMS)

**S10**    108080    S IC=(B81B-001/00 OR B81B-003/00 OR B81B-005/00 OR B81B-007/02 OR B81B-007/04 OR B81C-001/00 OR B81C-005/00 OR G02B-026/08 OR H01L-021/00 OR H01L-021/302 OR H01L-027/00 OR H01L-027/148 OR G02B-006/35 OR G02B-006/12 OR G02B-006/28)

**S11**    77402    S MC=(U12-B03F1B OR V06-M06G OR V06-U04E OR V06-U14 OR V07-G15 OR U13-D04 OR V07-5 OR V07-K05 OR W01-A06B5A OR W01-A06B5B OR W01-A06C1 OR W02-C04A9 OR W02-C04B1)

**S12**    2    S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8 AND S9

**S13**    11    S S1 AND S2 AND S5 AND S6 AND S9

**S14**    4    S S13 AND S10

**S15**    5    S S13 AND S11

**S16**    9    S S2 AND S4 AND S5 AND S8 AND S9

**S17**    2    S S16 AND S10

**S18**    7    S S16 AND S11

**S19**    3    S S14 NOT S12

**S20**    3    S S15 NOT (S12 OR S14)

**S21**    1    S S17 NOT (S12 OR S14 OR S15)

**S22**    4    S S18 NOT (S12 OR S14 OR S15 OR S17)

8/29/2006 11:13:39 AM  
8/29/2006 11:58:23 AM

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[File 2] INSPEC 1898-2006/Jan W2  
[File 6] NTIS 1964-2006/Jan W4  
[File 8] EI Compendex(R) 1970-2006/Jan W4  
[File 34] SciSearch(R) Cited Ref Sci 1990-2006/Jan W4  
[File 434] SciSearch(R) Cited Ref Sci 1974-1989/Dec  
[File 35] Dissertation Abs Online 1861-2006/Jan  
[File 65] Inside Conferences 1993-2006/Jan W5  
[File 94] JICST-EPlus 1985-2006/Nov W3  
[File 99] Wilson Appl. Sci & Tech Abs 1983-2006/Apr  
[File 144] Pascal 1973-2006/Jan W2  
[File 23] CSA Technology Research Database 1963-2006/Jan  
[File 103] Energy SciTec 1974-2006/Jan B1  
[File 31] World Surface Coatings Abs 1976-2006/Jan  
[File 95] TEME-Technology & Management 1989-2006/Jan W5  
[File 56] Computer and Information Systems Abstracts 1966-2006/Aug  
[File 57] Electronics & Communications Abstracts 1966-2006/Aug  
[File 68] Solid State & Superconductivity Abstracts 1966-2006/Jan  
[File 60] ANTE: Abstracts in New Tech & Engineer 1966-2006/Jan  
[File 293] Engineered Materials Abstracts 1966-2006/Jan  
[File 239] Mathscis 1940-2005/Feb  
[File 256] TECINFO SOURCE 82-2005/DEC

Set Items Description

S1 5287678 S SEMICONDUCTOR? ? OR SEMI()CONDUCTOR? ? OR PCB? ? OR TAB? ? OR PRINT?????()CIRCUIT()BOARD? ? OR CIRCUIT????()BOARD? ? OR LOAD()BOARD? ? OR LOADBOARD? ? OR LSI? ? OR ASIC? ? OR ELECTRON????()DEVICE? ? OR PRINT????()CIRCUIT??? OR IC? ? OR INTEGRAT????()CIRCUIT??? OR CHIP? ? OR WAFER??? OR MICROCHIP? ? OR MICRO()CHIP? ? OR VLSI? ? OR FLEX?????(3N)CIRCUIT OR FLEX????? OR (LEAD? ? OR WIRE? ? OR WIRING OR LINE? ? OR TRAC????? OR INTEGRAT?????) (3N)FLEX?????

S2 344864 S MEMS OR OPTICAL????(2N)SWITCH??? OR MICROMACHIN????? OR MICRO()MACHIN???? OR MICROELECTROMECHANICA????? OR MICRO()ELECTROMECHANICAL????? OR MICRO()ELECTRO()MECHANICAL????? OR MICROMECHANIC????? OR MICRO()MECHANIC????? OR MICRO(3N)MECHANICAL OR MICRO(2N)ELECTROMECHANICAL????? OR (MICRO OR MICROMECHANIC?????)(3N)(DEVICE? ? OR MEANS OR APPARATUS OR APPT OR CHIP OR CIRCUIT?????)

S3 5204238 S SUBSTRATE? ? OR WAFER????? OR SUPPORT????? OR CHIP OR MICROCHIP OR MICRO()CHIP

S4 26337029 S UNIT? ? OR ASSEMBL????? OR ENTIT????? OR GROUP? ? OR MODULE? ? OR PIECE? ? OR COMPONENT? ? OR ELEMENT? ? OR ITEM? ? OR PART?????????

S5 13373004 S MOVING OR MOVABLE OR SHIFT????? OR ADVANC????? OR MOBIL????? OR MOTIVE OR MOTIL????? OR MOTION????? OR ACTIV????? OR AGITATE???????

S6 2930641 S (CONTROL???? OR MASTER??? OR GUID???? OR OPERAT???? OR GOVERN???) (3N)(ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?) OR ELECTRODE? ? OR CONDUCTOR? ? OR ROD? ? OR ANODE? ? OR CATHODE? ? OR PROBE? ?

S7 27244212 S SENS???? OR DETECT???? OR MONITOR???? OR MEASUR???? OR TEST???? OR GAUG???? OR PROB???? OR ACTUAT???? OR CONTROL????(2N)(MEANS OR DEVICE OR APPT OR APPARATUS)

S8 1535 S (SHRINK????? OR DOWNSIZ????? OR DOWN()SIZING OR DECREAS????? OR MINIM????? OR DIMINISH????? OR REDUC????? OR ECONOM?????)(3N)(MEM OR MEMS)

S9 0 S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8

S10 225 S S1 AND S2 AND S8

S11 76 S S10 AND S5

S12 41 S S11 AND S4

S13 0 S S12 AND S6

S14 33 S S12 AND S7

S15 19 RD (unique items)

S16 8 S S15 AND PY<=2002

S17 85 S S2 AND S4 AND S5 AND S8

S18 37 S S17 AND (MEMOR????? OR PROCESS????? OR STOR????? OR BUFFER?????)

S19 15 S S18 AND S3

8/29/2006 11:13:39 AM  
8/29/2006 11:58:23 AM

10/664258

S20 11 RD (unique items)  
S21 6 S S20 AND PY<=2002  
S22 2 S S17 AND MIRROR?????  
S23 1 RD (unique items)  
S24 0 S S12 AND MIRROR?????  
S25 27324 S S1 AND S2 AND S5  
S26 1493 S S25 AND MIRROR?????  
S27 1 S S26 AND S8  
S28 718 S S26 AND S4  
S29 127 S S28 AND S6  
S30 67 S S29 AND (MEMOR????? OR PROCESS????? OR STOR????? OR BUFFER?????)  
S31 35 RD (unique items)  
S32 27 S S31 AND PY<=2002  
S33 1 S S32 AND DRIV????(3N)CIRCUIT????  
S34 19 S S32 AND S3  
S35 2 S S21 NOT S16  
S36 2 S S22 NOT (S16 OR S21)  
S37 1 S S27 NOT (S16 OR S21 OR S22)  
S38 1 S S33 NOT (S16 OR S21 OR S22 OR S27)  
S39 19 S S34 NOT (S16 OR S21 OR S22 OR S27 OR S33)

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8/29/2006 11:05:56 AM

s pn=us 6275326

S1 1 S PN=US 6275326

**map pn/ct=**

SearchSave "SC471" stored  
1 Select Statement, 1 Search Term(s)  
SearchSave SC471

1 SearchSave(s), 1 Search Term(s)

**map pn**

SearchSave "SC472" stored  
9 Select Statements, 101 Search Term(s)  
SearchSave SC472

1 SearchSave(s), 101 Search Term(s)

[File 344] Chinese Patents Abs Jan 1985-2006/Jan  
[File 347] JAPIO Nov 1976-2005/Sep(Updated 060103)  
[File 350] Derwent WPIX 1963-2006/UD,UM &UP=200607  
[File 371] French Patents 1961-2002/BOPI 200209

<b>Set</b>	<b>Items</b>	<b>Description</b>
S1	28	S1:S8 FROM 344, 347, 350, 371
S2	8	S S1 AND PY<=2002